

SPECIFICATIONS														
OUTPUT MODE	Voltage Current Tracking Series Voltage Tracking Parallel Current	GPS-4303				GPS-4251				GPS-3303			GPS-2303	
		CH1	CH2	CH3	CH4	CH1	CH2	CH3	CH4	CH1	CH2	CH3	CH1	CH2
		0 ~ 30V	2.2 ~ 5.2V	8 ~ 15V	0 ~ 25V	3 ~ 6V	8 ~ 15V	0 ~ 30V	5V Fixed	0 ~ 30V				
		0 ~ 3A	1A Max.	1A Max.	0 ~ 0.5A	2.5A Max.	1A Max.	0 ~ 3A	3A Max.	0 ~ 3A				
		0 ~ 60V			0 ~ 50V			0 ~ 60V		0 ~ 60V				
		0 ~ 6A			0 ~ 1A			0 ~ 6A		0 ~ 6A				
CONSTANT VOLTAGE OPERATION (CH1, CH2)	Line Regulation Load Regulation Ripple & Noise Recovery Time	$\leq 0.01\% + 3mV$ $\leq 0.01\% + 3mV$ (rating current $\leq 3A$ ) $\leq 0.02\% + 5mV$ (rating current $> 3A$ ) $\leq 1mVrms$ , 5Hz ~ 1MHz $\leq 100\mu S$ (50% Load change, Minimum load 0.5A)												
CONSTANT CURRENT OPERATION (CH1, CH2)	Line Regulation Load Regulation Ripple & Noise	$\leq 0.2\% + 3mA$ $\leq 0.2\% + 3mA$ $\leq 3mArms$												
TRACKING OPERATION (CH1, CH2)	Tracking Error Series Regulation Load Regulation Ripple & Noise	$\leq 0.5\% + 10mV$ of the CH1 $\leq 300mV$ $\leq 0.01\% + 3mV$ $\leq 2mVrms$ , 5Hz ~ 1MHz												
GPS-4303 2.2V ~ 5.2V OUTPUT (CH3) GPS-3303 5V FIX OUTPUT (CH3) GPS-4251 3V~6V OUTPUT(CH3)	Line Regulation Load Regulation Ripple & Noise Current Output	$\leq 5mV$ $\leq 15mV$ $\leq 2mVrms$ , 5Hz ~ 1MHz GPS-4303: 1A, GPS-3303: 3A, GPS-4251: 2.5A												
GPS-4303 8V ~ 15V OUTPUT (CH4) GPS-4251 8V~15V OUTPUT (CH4)	Line Regulation Load Regulation Ripple & Noise Current Output	$\leq 5mV$ $\leq 10mV$ $\leq 2mVrms$ , 5Hz ~ 1MHz 1A												
METER	Digital	3 digits 0.5" LED display GPS-4303/4251/3303 Out ON Accuracy $\pm (0.5\% rdg + 2 \text{ digits})$ GPS-4303/3303 Out OFF Accuracy $\pm (0.5\% rdg + 8 \text{ digits})$ GPS-2303 Accuracy $\pm (0.5\% rdg + 2 \text{ digits})$												
INSULATION	Chassis and Terminal Chassis and AC Cord	$\geq DC 500V / 20M\Omega$ $\geq DC 500V / 30M\Omega$												
POWER SOURCE	AC 100V/120V/220V( $\pm 10\%$ )/230V( $+10\% \sim -6\%$ ), 50/60Hz													
ACCESSORIES	Power cord x 1, Instruction manual x 1 GPS-4303 : Test lead GTL-104 x 2, GTL-105 x 2 or GTL-203 x 2, GTL-204 x 2 GPS-4251 : Test lead GTL-105 x 4 or GTL-203 x 4 GPS-3303 : Test lead GTL-104 x 2, GTL-105 x 1 or GTL-203 x 1, GTL-204 x 2 GPS-2303 : Test lead GTL-104 x 2 or GTL-204 x 2													
DIMENSIONS & WEIGHT	255(W) x 145(H) x 265(D) mm, Approx. 7 kg (GPS-4303/3303/2303) ; Approx. 6.3kg (GPS-4251)													

Specifications subject to change without notice.

#### Order Information

GPS-4303 4-channels, 0~30V x 2, 0~3A x 2, Power Supply  
 GPS-4251 4-channels, 0~25V x 2, 0~0.5A x 2, Power Supply  
 GPS-3303 3-channels, 0~30V x 2, 0~3A x 2, Power Supply  
 GPS-2303 2-channels, 0~30V x 2, 0~3A x 2, Power Supply

#### Standard Accessories

GPS-4303-01 Including GTL-104 x 2 & GTL-105 x 2 Type of Test Lead Set  
 GPS-4303-02 Including GTL-203 x 2 & GTL-204 x 2 Test Lead GTL-104 : Current 4A~10A  
 GPS-4251-03 Including GTL-105 x 4 Test Lead GTL-105 : Current 3A  
 GPS-4251-04 Including GTL-203 x 4 Test Lead GTL-203 : Current 3A  
 GPS-3303-05 Including GTL-104 x 2 & GTL-105 x 2 Test Lead GTL-204 : Current 4A~10A  
 GPS-3303-06 Including GTL-203 x 2 & GTL-204 x 2  
 GPS-2303-07 Including GTL-104 x 2  
 GPS-2303-08 Including GTL-203 x 2  
 Instruction manual x 1  
 Power cord x 1

ISO-9001 & ISO-14001 CERTIFIED MANUFACTURER



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PS-2303GD1BH

# GPS-2303/3303/4251/4303

## Multi-Output D.C. Power Supply



- 2/3/4 Multi-Independent DC Outputs
- Low Noise and Excellent Regulation
- Versatile and Safety Design



GPS-2303/3303/4251/4303 series power supply offer the choices of 2,3 and 4 independent outputs respectively with flexible output voltage/current combination, 0.01% highly regulated power outputs and considerate safety design.

Two main outputs of 30V/3A allow the extended applications of 60V/3A and 30V/6A under series and parallel modes of GPS-2303/3303/4303. (GPS-4251 outputs: 25V/0.5A, Series: 50V/0.5A, Parallel: 25V/1A). The additional power output(s) of GPS-3303/4251/4303 meets the increasing market demand of multiple power sources. An output ON/OFF switch prevents the load devices from accidental damage during setting adjustment. To avoid fan acoustic noise in the lab, GPS-series have been designed with fan speed control feature to minimize the fan noise annoyance. The combination of accuracy, flexibility and safety makes GPS-series an all-in-one solution in a broad application range of R&D, Education Lab., Manufacturing, Service, Component Test, and System Power Module.

### FEATURES :

- Multiple Power Outputs**  
 2, 3 and 4 independent isolated outputs with four "3 digit" LED displays
- Stable and Clean Power**  
 0.01% load and line regulation and low ripple and noise
- Flexible Output Voltage and Current**  
 Tracking operation and auto Series/Parallel extend application range to 60V/3A and 30V/6A (GPS-4251 Series: 50V/0.5A, Parallel: 25V/1A)
- Safety Design**  
 Output ON/OFF switch, CC/CV modes, Overload Protection and Reverse Polarity Protection
- Low Fan Acoustic Noise**  
 Fan speed control circuit to minimize Fan Noise

### APPEARANCE :



GPS-2303 (2 Outputs)

GPS-3303 (3 Outputs)



GPS-4303/4251 (4 Outputs)

Optional

(European Jack Type Terminal for All Models)

# Multi-Output, High Quality Power Supply With Affordable Price



## GPS-2303/3303/4251/4303

GPS - 2303	2 Outputs
GPS - 3303	3 Outputs
GPS - 4251	4 Outputs
GPS - 4303	4 Outputs

Suffix code definition : GPS - X X X X



### Safety Design

The output load is protected from accidental damage during output setting adjustment. The power output could be switched off for setting change, and switched on once the setting is done. The polarity protection is also available to avoid the damage of misconnection.



### Stable and Clean Output

0.01% Line/Load regulation keeps power output steady in spite of power line fluctuation and load effect. The clean power with low ripple and noise ensures your jobs done without any suspicion of power source purity.



### Front Panel Display

Two outputs of Voltage/Current display could be monitored on the front panel simultaneously. CH1/CH3 or CH2/CH4 of power output Voltage/Current could be selected for display by a front panel switch.



### Multiple Outputs with Flexible Output Range

With the choices of multiple output models, GPS-series provide you a flexible solution to meet your job requirement within budget limit. In addition the tracking and the auto Series/Parallel features extend your application range up to 60V/3A (by Series) and 30V/6A (by Parallel) without acquiring additional power supply units. (GPS-4251 Series: 50V/0.5A, Parallel: 25V/1A)

### Low Fan Acoustic Noise

Under the Low/No load condition, GPS-series automatically lower the fan speed to eliminate annoying acoustic noise through a thermal control circuit.

### Compact, Reliable and Affordable Price

The compact design of GPS-series adopting SMD components and ring transformer has significantly reduced the size and weight of a power supply. The design advancement also makes high reliability and affordable price come together with a product.

### European Jack Type Terminal

In addition to the general banana terminals, GPS-series also offer an option of European Jack Type terminals, which fulfill the market demands in Europe.